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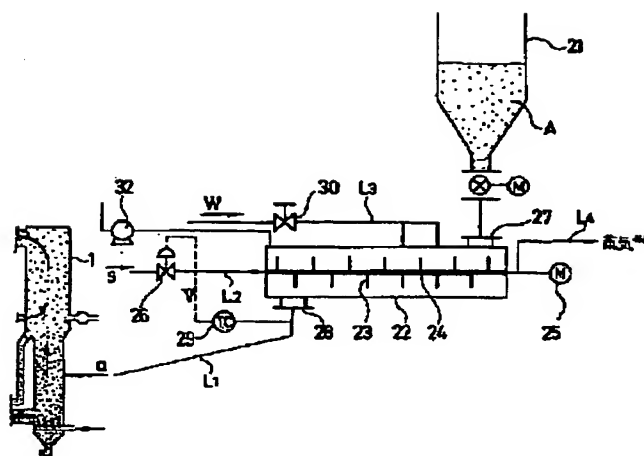
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TITLE : RECYCLE METHOD OF COMBUSTION
ASH IN FLUIDIZED BED BOILER



ABSTRACT : PROBLEM TO BE SOLVED: To reduce the consumption of limestone and the discharging amount of ash by a method wherein reactivated ash is obtained by the hydrating reaction of combustion ash, collected by a dust collector, through humidification as well as mixing and, thereafter, the combustion ash is dried to resupply it into a combustor.

SOLUTION: Combustion ash A, collected principally by a dust collector 114, is supplied from an ash silo 21 into a mixer 22 through a combustion ash supplying port 27, then, water W, supplied from a line L3, is mixed into the ash A to humidify it. According to this method, the hydrating reaction of ash, which is caused by unreacted limestone existing in the combustion ash A, is effected and calcium hydroxide is produced whereby sudden heat generation and expansion are effected and activated calcium constituent is exposed on the surface thereof thereby producing reactivated ash. A temperature in the mixer 22 is increased to about 150°C by the heat generating and expanding operations while the reactivated ash (a) is dried and powdered by the temperature increasing operation. The reactivated ash (a), dried and powdered in such a manner, is resupplied into a combustor 1 through a line L1.

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